DELANO DRIVE PARKING LOT PUBLIC WORKS DEPARTMENT

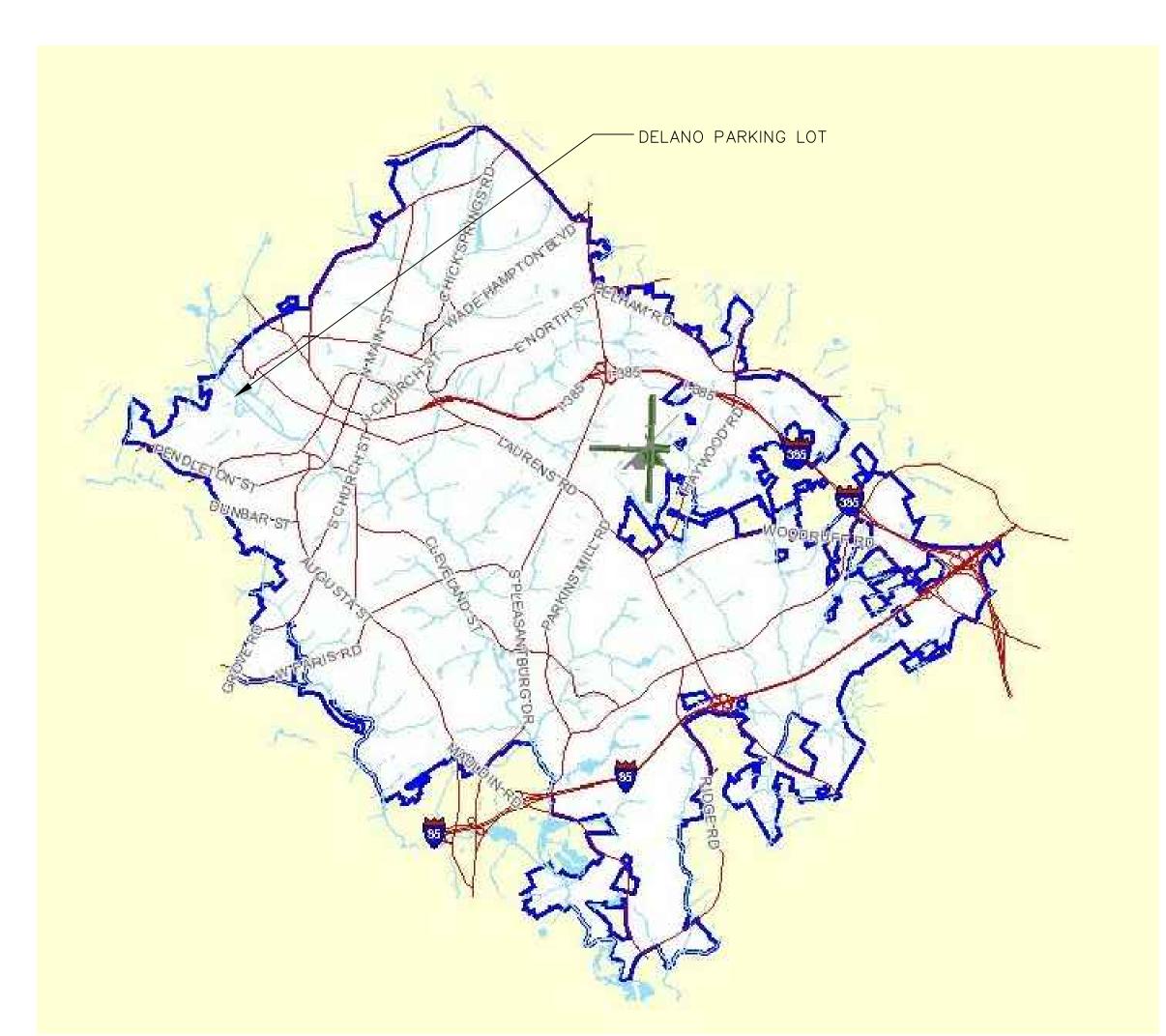
ENGINEERING DIVISION

CITY OF GREENVILLE, SOUTH CAROLINA

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NPDE	S PERMIT INFORM	<u>ation</u>
AREA = _	NPDES DISTURBED 1.65	ACRE(S)

RAILROAD INVOLVEMENT? YES / NO



CITY OF GREENVILLE LOCATION MAP

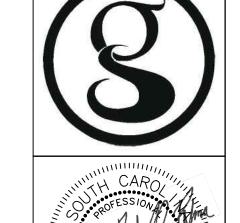
ALL WORKMANSHIP AND MATERIAL ON THIS PROJECT IS TO CONFORM TO THE CITY OF GREENVILLE STANDARD DRAWINGS AND CONSTRUCTION SPECIFICATIONS AND SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND BOOK OF STANDARD DRAWINGS FOR ROAD CONSTRUCTION (LATEST PUBLISHED ENGLISH REVISION).

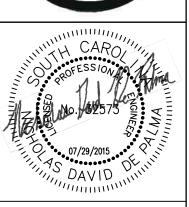
APPROVED BY: DWAYNE A. COOPER, PE ENGINEERING SERVICES MANAGER

LEGEND

	APPROXIMATE PROPERTY LINES
	ASPHALT
	CENTERLINE
	CONCRETE
c/L	CONSTRUCTION LIMITS
	DEMOLITION_ASPHALT
	DEMOLITION_CONCRETE
	EXISTING GRADE
FOC	FACE OF CURB
	FACE OF GUTTER
F0	FIBER OPTIC
GAS	GAS LINE
s	INLET PROTECTION
OHP	OVERHEAD POWER
	PROFILE FINISHED GRADE
	PROPERTY LINES
SS	SANITARY SEWER
SF	SILT FENCE
SD	STORM DRAIN
XSD	STORM DRAIN_EXISTING
TEL	TELEPHONE

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA CALL 1-800-922-0983 PALMETTO UTILITY PROTECTION SERVICE





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	BY/CHKD							
	DATE							
	No.							
	REVISION							
	PROJECT NO.	PWXXXX	DATE	4/18/2019	DRAWN BY	QN	CHECKED BY	CL
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DRAWING NO.

- 1. TOPOGRAPHIC AND BOUNDARY SURVEY BY THE CITY OF GREENVILLE (864-467-4400).
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND INVERT ELEVATION OF ALL UNDER GROUND UTILITIES, AND VERIFY PROPERTY CORNERS AND TOPO BEFORE ANY CONSTRUCTION IS BEGUN. CALL PUPS (PALMETTO UTILITY PROTECTION SERVICE) AT 1-800-922-0983 THREE (3) DAYS BEFORE ANY EXCAVATION TO LOCATE ALL BURIED CABLES AND UNDERGROUND UTILITIES. GWS (GREENVILLE WATER SYSTEM) MUST BE CONTACTED SEPARATELY FROM PUPS. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, THE CONTRACTOR SHALL VERIFY THE INVERTS OF EXISTING STRUCTURES AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHOULD NOTIFY THE ENGINEER FOR A REVIEW SHOULD DISCREPANCIES BE DISCOVERED AT THE SITE OR ON THE DRAWINGS BEFORE OR DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE BETWEEN ALL CIVIL DRAWINGS WITH GRADING AND UTILITY CONTRACTORS IN ORDER TO AVOID PROBLEMS DURING CONSTRUCTION.
- CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER AND UTILITY COMPANIES DURING CONSTRUCTION OF SEWER SO PERIODIC OBSERVATIONS CAN BE MADE. CONTRACTOR WILL CERTIFY TO THE ENGINEER IN WRITING THAT THE SEWER LINES HAVE BEEN TESTED AND CONSTRUCTED ACCORDING TO THE DRAWINGS AND SPECIFICATIONS.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- ALL REFERENCE TO SPECIFICATIONS FOR HIGHWAY CONSTRUCTION OR MATERIALS ARE MADE FROM SOUTH CAROLINA STATE HIGHWAY DEPARTMENT'S STANDARD SPECIFICATION, LATEST EDITION.
- 7. ALL DIMENSIONS SHOWN ARE MEASURED TO FACE OF CURB LINE.
- EARTHWORK SHALL BE TO THE LINES AND GRADES SHOWN ON THE CROSS SECTIONS, OR AS DIRECTED BY THE ENGINEER, AND IN ACCORDANCE WITH ALL SPECIFICATIONS. PROOF ROLLING AND COMPACTION TEST SHALL BE ACCOMPLISHED IN THE FIELD TO TEST ALL AREAS. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A TESTING COMPANY TO TEST ALL AREAS. FILL SHALL BE PLACED IN LOOSELY MEASURED LIFTS NOT EXCEEDING 8" LOOSE THICKNESS.
- 9. CONTRACTOR SHALL PROTECT ALL TREES THAT ARE TO REMAIN AS MARKED ON THE PLANS OR IN THE FIELD BY OWNER'S REPRESENTATIVE.
- THE GRADING CONTRACTOR SHALL PROOF-ROLL THE CONSTRUCTION AREA WITH A FULLY-LOADED TANDEM-AXLE DUMP TRUCK, OR APPROVED EQUAL, BY MAKING 2 COMPLETE PASSES IN EACH TRAVELED LANE. ALL SOFT SPOTS SHALL BE UNDERCUT AND RE-COMPACTED WITH SUITABLE STRUCTURAL FILL MATERIAL. MINIMUM AXLE WEIGHT = 10 TONS.
- 11. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON, OR NEAR THE CONSTRUCTION SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS, AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. THE CONTRACTOR IS TO COMPLY WITH ALL OSHA REGULATION, REQUIREMENTS, AND SAFETY MEETING REQUIREMENTS.
- 12. ALL NEW ELEVATIONS SHOWN ARE FINISH GRADE ELEVATION.
- 13. THE CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION THAT ARE WITHIN 5 FEET OF NEW CONSTRUCTION (UNLESS NOTED OTHERWISE). REMOVE DEBRIS FROM SITE IN ACCORDANCE WITH ALL LOCAL LAWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. PROTECT ALL TREES THAT ARE TO REMAIN.
- 14. TOPSOIL SHALL BE STRIPPED TO A DEPTH AS REQUIRED AND STOCKPILED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THE TOP 18" OF FILL SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY BY THE STANDARD PROCTOR METHOD ASTM D-698. ALL OTHER FILL SHALL BE COMPACTED TO 95" MAXIMUM DRY DENSITY. MOISTURE SHALL BE CONTROLLED TO WITHIN +-2% OF OPTIMUM.
- ALL EXCAVATION SHALL BE "UNCLASSIFIED EXCAVATION" OR "BORROW EXCAVATION." UNLESS SPECIFIED OTHERWISE. BORROW EXCAVATION INCLUDES MATERIAL BROUGHT IN OFF-SITE. ROCK EXCAVATION, IN THE EVENT IT IS ENCOUNTERED, INCLUDES SUCH MATERIAL, WHICH CANNOT BE REMOVED BY MEANS OTHER THAN BY BLASTING OR WITH AN AIR HAMMER.
- 17. THE CLASSIFICATION OF SOILS INCLUDE: TOPSOIL, FILL MATERIAL, UNSUITABLE MATERIAL, AND ROCK EXCAVATION. THE CLASSIFICATION OF SOILS IS THE RESPONSIBILITY OF THE CONTRACTOR'S TESTING FIRM.
- ALL FILL MATERIAL SHALL CONSIST OF AN APPROVED MATERIAL AND BE FREE OF ORGANIC MATTER AND DEBRIS. IMPORTED FILL SHALL HAVE A MINIMUM STANDARD PROCTOR MAXIMUM DRY DENSITY OF 90 PCF, A LIQUID LIMIT NO GREATER THAN 40, AND PLASTICITY INDEX LESS THAN 15.
- 19. ALL EXISTING SLOPES STEEPER THAN 4:1 THAT WILL RECEIVE FILL SHALL BE PLOWED AND SCARIFIED SO NEW FILL WILL BOND WITH EXISTING SURFACE.
- 20. CONTRACTOR SHALL SCARIFY ALL EXISTING ASPHALT PAVEMENT BEFORE PLACING FILL, UNLESS OVERLAYING ASPHALT ONTO EXISTING ASPHALT.
- 21. THE GRADING CONTRACTOR SHALL CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN WITHIN A TOLERANCE OF PLUS OR MINUS 0.05 FEET.
- SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SPOT ELEVATIONS WHICH DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS SHALL BE USED FOR SETTING ELEVATIONS OF CURB AND GUTTER AND UTILITIES.
- 23. IF GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO INVESTIGATE SUCH ADJUSTMENTS.
- 24. GRADES SHOWN AT ALL ENTRANCES ARE DESIGN GRADES. CONTRACTOR SHALL COORDINATE GRADING IN THESE AREAS WITH EXISTING FEATURES IN THE FIELD AND/OR CURRENT DESIGN DRAWINGS.
- 25. CONTRACTOR SHALL EXTEND UNDERGROUND ROOF DRAINAGE PIPING TO NEAREST CATCH BASIN.
- 26. ALL ROADS SHALL HAVE A MINIMUM 1 FOOT SHOULDER WIDTH.
- 27. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, UNLESS NOTED ON DRAWINGS WITH BELL & SPIGOT ENDS AND SHALL CONFORM TO ALL REQUIREMENTS OF ASTM C 76, LATEST EDITION, INSTALLED WITH FLEXIBLE PLASTIC (BITUMEN) GASKETS AT ALL JOINTS. GASKETS SHALL COMPLY WITH AASHTO M 198 751, TYPE B, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATIONS.
- ALL CORRUGATED PLASTIC PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M 294, TYPE S, SHALL BE SMOOTH INTERIOR WITH ANNULAR CORRUGATED EXTERIOR HI-Q SURE-LOK 10.8 PIPE, ADS, N-12, OR APPROVED EQUAL. ALL JOINTS SHALL BE BELL AND SPIGOT AND SHALL MEET THE REQUIREMENTS OF AASHTO M-294 SHALL BE WATERTIGHT, MEETING THE REQUIREMENTS OF ASTM D 3212. THE GASKETS SHALL BE MADE OF POLYISOPRENE MEETING THE REQUIREMENTS OF ASTM F 477. INSTALLATION SHALL CONFORM TO AASHTO M-294, ASTM D-2321, AND MANUFACTURERS INSTALLATION PROCEDURES. MAX COVER IS 15 FEET.
- 29. ANY REINFORCED CONCRETE PIPE WITH MORE THAN 15 FEET OF COVER SHALL BE CLASS IV WITH O-RING JOINTS.
- 30. ALL STORM PIPE LENGTH AND ELEVATIONS (TOPS AND INVERTS) OF STORM DRAINAGE STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR MAY HAVE TO FIELD ADJUST AS NECESSARY DURING CONSTRUCTION. THE CONTRACTOR MAY USE PRE-CAST DRAINAGE STRUCTURES AS AN ALTERNATE FOR STRUCTURE SPECIFIED ON THE PLAN. HOWEVER, THE OWNER ASSUMES NO RESPONSIBILITY FOR THESE STRUCTURES, AS FIELD CONDITIONS DURING CONSTRUCTION OFTEN DICTATE ADJUSTMENTS OF STORM DRAINAGE STRUCTURES. THE CONTRACTOR RETAINS ALL RESPONSIBILITY AND EXPENSE FOR MODIFYING THE PRE-CAST STRUCTURES TO ACCOMMODATE THESE ADJUSTMENTS.

- 31. ANY REINFORCED CONCRETE PIPE STEEPER THAN 10 PERCENT MUST HAVE CONCRETE COLLARS. CORRUGATED METAL PIPE WITH HUGGER BANDS MAY BE SUBSTITUTED. THE NUMBER OF CONCRETE COLLARS AND TYPE OF STORM PIPE WILL BE DETERMINED TOGETHER BY THE CONTRACTOR AND THE ENGINEER.
- 32. ALL CORRUGATED STEEL PIPE SHALL BE TYPE 2, ALUMINIZED STEEL PIPE, MEETING AASHTO M-274, 16 GAUGE FOR SIZES 24" AND SMALLER AND 14 GAUGE FOR SIZES 30" AND LARGER. ALL CONNECTIONS SHALL BE HUGGER BAND WITH O-RING GASKETS.
- 33. ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED TO LINES AND GRADES SHOWN AND AS DETAILED ON THE DRAWINGS. ALL MANHOLE/CLEANOUT TOP ELEVATIONS ON CIVIL DRAWINGS ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MANHOLE/CLEANOUT TOPS ARE FLUSH WITH PAVEMENT THROUGHOUT THE PROJECT.
- 34. THE CONTRACTOR SHALL PROVIDE STANDARD CLEAN-OUTS OR MANHOLES AT ALL BENDS AND CHANGES IN GRADE IN SEWER LINES AND CONNECTIONS TO EXISTING SEWER LINES. PIPE BEDDING AND BACKFILL SHALL BE CAREFULLY CONTROLLED. ALL SANITARY SEWER WORK SHALL COMPLY WITH LOCAL CODES AND ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING WITH THE LOCAL AND STATE SEWER APPROVAL AUTHORITIES TO INSURE THAT ALL MATERIALS, INSTALLATION, TESTING, AND AS-BUILT DRAWING REQUIREMENTS WILL BE TO THE SATISFACTION OF THE LOCAL AND STATE AUTHORITIES.
- 35. ALL UTILITY TRENCHES SHALL BE THOROUGHLY COMPACTED AND TESTED TO PREVENT SETTLEMENT AND DAMAGE TO FUTURE PAVEMENT AND STRUCTURES.
- 36. ASPHALT PAVING SHALL BE CONSTRUCTED ON A PREPARED AND WELL-DRAINED SUBGRADE COMPACTED AS SPECIFIED. THE BASE COURSE SHALL BE CONSTRUCTED WITH 6" GRADED AGGREGATE. THE BINDER COURSE SHALL BE CONSTRUCTED WITH 2" COMPACTED THICKNESS ASPHALT CONCRETE. THE SURFACE COURSE SHALL BE CONSTRUCTED WITH 1.5" COMPACTED THICKNESS ASPHALT CONCRETE. ALL PAVING WORK (MATERIALS AND CONSTRUCTION) SHALL COMPLY WITH STATE SPECIFICATIONS.
- 37. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED WITH 3,000 PSI CONCRETE, 4" THICK NON-REINFORCED WITH JOINTS AS SHOWN ON DETAILS. THERE SHALL BE CONTROL JOINTS INSTALLED EVERY 5 FEET ALONG SIDEWALK.
- 38. ALL AREAS NOT COVERED BY CONCRETE AND PAVEMENT SHALL RECEIVE TOPSOIL AND BE GRASSED IN ACCORDANCE WITH SPECIFICATIONS.
- 39. SCDOT CONCRETE CURB AND GUTTER SHALL BE 18" WIDE WITH 6" CURB CONSTRUCTED WITH 3,000 PSI CONCRETE WITH EXPANSION JOINTS AND CONTRACTION JOINTS INSTALLED TO COMPLY WITH SCDOT STANDARD SPECIFICATION FOR MATERIALS CONSTRUCTION OF CURB AND GUTTER.
- 40. THE GRADING CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL TIMES. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY AREAS THAT MAY NOT DRAIN PROPERLY DURING CONSTRUCTION.
- 41. CONTRACTOR SHALL INCLUDE IN COST ALL WETTING/DRYING OF SOILS NECESSARY TO ACHIEVE COMPACTION PER SPECIFICATIONS.
- 42. THE SEQUENCE OF WORK SHALL CONFORM TO THE EROSION CONTROL NARRATIVE.
- 43. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE WHEN INSTRUCTIONS FROM REGULATORY AGENCIES ARE RECEIVED AND COMPLY WITH INSTRUCTIONS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 44. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SHALL AT ONCE REPORT TO THE ENGINEER ANY INCONSISTENCIES OR OMISSIONS DISCOVERED. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY THAT ALL LOCATIONS ARE CORRECT PRIOR TO COMMENCING CONSTRUCTION.
- 45. THE CONTRACTOR SHALL NOT PERFORM ANY WORK ON ANY UTILITIES OR IN ANY PUBLIC RIGHT-OF-WAY UNTIL HE HAS OBTAINED COPIES OF ALL NECESSARY ENCROACHMENT AND CONSTRUCTION PERMITS.
- 46. ROCK EXCAVATION SHALL BE CLASSIFIED AS FOLLOWS:
- MASSIVE ROCK EXCAVATION ANY MATERIAL WHICH CANNOT BE EXCAVATED WITH A SINGLE TOOTH RIPPER DRAWN BY A CRAWLER TRACTOR HAVING A MINIMUM DRAW BAR RATED AT NOT LESS THAN 53,000 POUNDS (CATERPILLAR D-8 OR EQUIVALENT) AND OCCUPYING AN ORIGINAL VOLUME OF AT LEAST ONE CUBIC YARD OR
- TRENCH EXCAVATION MATERIAL WHICH CANNOT BE EXCAVATED WITH A POWER SHOVEL HAVING THE CAPACITY OF AT LEAST THAT OF A CATERPILLAR 225 AND OCCUPYING AN ORIGINAL VOLUME OF AT LEAST ½ CUBIC YARD OR MORE.
- 47. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING ANY EXISTING UTILITIES NECESSARY FOR SITE CONSTRUCTION INCLUDING ALL PERMITS AND FEES.
- 48. THE CONTRACTOR SHALL VERIFY BENCH MARK LOCATION AND ELEVATION WITH SURVEYOR BEFORE BEGINNING CONSTRUCTION.
- 49. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EASEMENTS ON THE SITE BEFORE PROCEEDING WITH CONSTRUCTION.
- 50. IN THE CASE OF A CONFLICT IN SPECIFICATIONS, NOTES, PLANS, OR DETAILS, THE STRICTER SHALL GOVERN.
- 51. THE GEOTECHNICAL REPORT WAS PREPARED BY AN INDEPENDENT TESTING COMPANY AND IS INCLUDED IN THE DOCUMENTS FOR INFORMATION ONLY. NEITHER THE OWNER NOR THE ENGINEER WARRANTS THE INFORMATION CONTAINED IN THE SUBSURFACE EXPLORATION REPORT. BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL MAKE HIS OWN INDEPENDENT SUBSURFACE INSPECTION AND EVALUATION. THE CONTRACTOR'S OWN PITS, SUBSURFACE DRAINAGE, AND UNDERCUTTING IF REQUIRED. THE SOILS ENGINEER SHALL APPROVE ALL MEANS AND METHODS OF CONSTRUCTION RELATED TO SITEWORK ON THIS PROJECT. THE CONTRACTOR SHALL CONTACT THE SOILS ENGINEER BEFORE SUBMITTING HIS BID AND OBTAIN APPROVAL OF HIS MEANS AND METHODS OF CONSTRUCTION.
- 52. ALL SITES NOT REQUIRED FOR ACTUAL CONSTRUCTION SHOULD BE PRESERVED IN EXISTING CONDITION. ANY AREAS UTILIZED BY THE CONTRACTOR FOR STORAGE, PARKING, ETC. SHOULD HAVE ADVANCE WRITTEN APPROVAL FROM THE ENGINEER AND/OR OWNER OF PROPERTY AND SHALL BE THOROUGHLY RESTORED AT NO EXPENSE TO THE CITY IN THE MANNER PROVIDED IN THE CONTRACT FOR SEEDING, FERTILIZING, AND MULCHING.
- 53. ALL CHANGES INVOLVING INCREASED COST TO THE PRODUCT MUST BE SPECIFICALLY AUTHORIZED BY THE CITY ENGINEER.
- 54. A LIST OF KNOWN OWNERS OF UTILITIES ON THE PROJECT ARE LISTED BELOW. ALL UTILITY COMPANIES HAVE OFFICES IN GREENVILLE, SC.

UTILITY CABLE CHARTER COMMUNICATIONS

ELECTRIC DUKE ENERGY

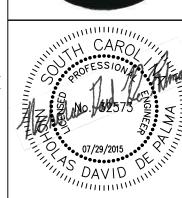
PIEDMONT NATURAL GAS GAS SANITARY SEWER CITY OF GREENVILLE

TELEPHONE AT&T

GREENVILLE WATER SYSTEM WATER

- 55. THE EXTENT OF CLEARING AND GRUBBING SHALL BE TO THE CONSTRUCTION LIMITS, EXCEPT AS DIRECTED BY THE ENGINEER.
- 56. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON TRAFFIC CONTROL. THE CONTRACTOR SHALL COMPLY WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (SCDOT) TRAFFIC CONTROL MEASURES AS ADDRESSED IN THE M.U.T.C.D., 2000 MILLENIUM EDITION.
- 57. QUANTITIES SHOWN ON THE PLANS ARE BASED ON EXISTING FIELD CONDITIONS AT THE TIME OF PLAN AND PREPARATION AND ARE TO BE USED FOR THE PREPARATION OF PROPOSALS. AS DETERMINED BY THE ENGINEER, QUANTITIES MAY CHANGE BASED UPON CONDITIONS UNCOVERED AT THE TIME OF CONSTRUCTION.
- 58. CONSTRUCTION OF DRIVEWAYS AND DRIVEWAY TIES: UNLESS OTHERWISE DIRECTED IN THE PLANS, THE CONTRACTOR SHALL CONSTRUCT EACH DRIVEWAY PER THE CITY OF GREENVILLE'S DRIVEWAY STANDARD. AS SHOWN IN THE STANDARD DETAILS. AREAS FOR DRIVEWAY TIE-INS ARE MEASURED FROM THE BACK OF CONCRETE DRIVEWAY APRON TO THE LIMITS OF CONSTRUCTION, AS SHOWN IN THE PLANS AND CROSS-SECTIONS. CONTRACTOR SHALL REFER TO THE STANDARD DETAILS FOR DRIVEWAY TIE-INS. DRIVEWAYS SHALL BE MAINTAINED AND KEPT IN USE AT ALL TIMES.





RA

DRAWING NO.

EROSION PREVENTION & SEDIMENT CONTROL NOTES

- 1. THE CITY OF GREENVILLE CONSTRUCTION INSPECTION BUREAU SHALL BE NOTIFIED BY THE PERMIT HOLDER AT (864) 467-8890 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES.
- 2. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND FUNCTIONING PRIOR TO BEGINNING ANY PROJECT EARTH DISTURBING ACTIVITIES.
- 3. ALL SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED UNTIL CONSTRUCTION IS COMPLETE, THE SITE IS PERMANENTLY STABILIZED, AND THE NOTICE OF TERMINATION (NOT) IS FILED WITH SCDHEC.
- 4. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS PERMANENTLY STABILIZED.
- 5. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS. DAMAGED, INEFFECTIVE OR INCORRECTLY INSTALLED DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY, WITHIN 48 HOURS OF IDENTIFICATION.
- 3. ALL INSPECTION RECORDS SHALL BE DOCUMENTED IN WRITTEN FORM AND CATALOGUED IN A RECORD KEEPING BINDER FOR THE PROJECT (SWPPP BOOK). THE CITY MAY REQUIRE ELECTRONIC SUBMISSION OF WEEKLY INSPECTION RECORDS.
- 7. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT AREA, AND CUMULATIVE PRECIPITATION DEPTH SHALL BE RECORDED WITH WEEKLY INSPECTION DOCUMENTATION. ALL RAINFALL EVENTS 0.5" AND GREATER, AS RECORDED ONSITE OR BY A WEATHER STATION IN REASONABLE PROXIMITY TO THE PROJECT, SHALL ALSO BE DOCUMENTED WITH THE WEEKLY INSPECTION REPORTS.
- 8. ALL EROSION PREVENTION AND SEDIMENT CONTROL PLANS AND INSPECTION DOCUMENTATION (E.G. SWPPP BOOK, CERTIFICATION STATEMENTS, INSPECTION RECORDS, MAINTENANCE RECORDS, AND RAINFALL DATA) SHALL BE RETAINED AT THE CONSTRUCTION SITE OR, IF APPROVED BY THE CITY, AT A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED. ALL PLANS AND DOCUMENTS SHALL BE UPDATED AS REQUIRED PER SC NPDES GENERAL PERMIT SCR100000.
- 9. IF EXISTING BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMP'S MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW:
- A. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS
- B. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 1. THE SITE SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN ALL SURFACE DISTURBING ACTIVITIES ARE COMPLETE AND EITHER OF THE TWO FOLLOWING CRITERIA IS MET:
- A. A UNIFORM (E.G. EVENLY DISTURBED, WITHOUT LARGE BARE AREAS) PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OF THE NATIVE BACKGROUND
- VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS RIP RAP, GABIONS, OR GEOTEXTILES) HAVE BEEN EMPLOYED.

TEMPORARY GRASSING NOTES

- 1. AREAS TO BE GRASSED SHALL BE DEFINED AS ALL AREAS OF SITE WITHIN THE GRADING LIMITS AND NOT OCCUPIED BY PAVING, CRUSHED STONE SURFACING OR STRUCTURES. GRASSING SHALL INCLUDE FINAL SHAPING, LIMING, FERTILIZING AND SEEDING.
- 2. LIME SHALL BE AGRICULTURAL GRADE, GROUND LIMESTONE. GROUND LIMESTONE SHALL CONTAIN NOT LESS THAN 88% OF CALCIUM CARBONATE CONTENT EQUIVALENT AND SHALL BE SUCH A FINENESS THAT 90% WILL PASS THROUGH A NO. 10 SIEVE AND NOT LESS THAN 50% THROUGH A NO. 50 SIEVE.
- 3. FERTILIZER SHALL BE GRADE 10-10-10 COMPLETE FERTILIZER OF UNIFORM COMPOSITION, FREE-FLOWING AND SUITABLE FOR APPLICATION WITH EQUIPMENT, DELIVERED TO SITE IN BAGS LABELED WITH MANUFACTURER'S GUARANTEED ANALYSIS, AND SHALL CONFORM TO ALL STATE AND FEDERAL REGULATIONS.
- 4. SEEDS SHALL BE MIXTURE AS APPROVED BY TE ENGINEER AND SHALL MEET REQUIREMENTS OF SEED LAWS OF THE STATE AND THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER FEDERAL SEED ACT IN EFFECT ON DATE BIDS ARE RECEIVED. SEED SHALL BE DELIVERED IN STANDARD CONTAINERS. SEED WHICH HAS BECOME WET, MOLDY OR DAMAGED IN TRANSIT OR STORAGE WILL NOT BE ACCEPTABLE.
- 5. MULCH SHALL CONSIST OF SMALL GRAIN STRAW OF GOOD QUALITY, CLEAN, FREE OF NOXIOUS WEEDS, AND REASONABLY FREE OF OTHER WEEDS. SPREAD MULCH AT A RATE OF 1 TON PER ACRE ON SLOPES UP TO 8.0% AND AT A RATE OF 1-1/2 TONS PER ACRE FROM 8.0% UP TO A SLOPE OF 15%.
- 6. SPREAD LIME AT A RATE OF 3,000 LBS PER ACRE
- 7. FERTILIZER SHALL BE DISTRIBUTED UNIFORMLY AT A RATE OF 1,000 LBS PER ACRE AND SHALL BE INCORPORATED INTO SOIL TO A DEPTH OF AT LEAST 2" BY DISKING AND HARROWING.
- 8. SPREAD SEED AT A RATE IN ACCORDANCE WITH THE SOUTH CAROLINA HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
- 9. IMMEDIATELY AFTER FERTILIZING AND SEEDING HAVE BEEN COMPLETED, ENTIRE AREA SHALL BE COMPACTED BY MEANS OF A CULTIPACKER, ROLLER, OR APPROVED EQUIPMENT WEIGHING APPROXIMATELY 90 LBS PER LINEAR FOOT OR ROLLER. USE OF SPECIFIED MULCH, APPLIED AT A RATE OF 1-2 TONS/ACRE (USE OF HIGHER RATE FOR 3 TO 1 SLOPES OR GREATER), WITH ASPHALT EMULSION TYPE SS-1, MS-2, RS-1, OR RS-2, SHALL BE USED TO PROTECT SITE AGAINST EROSION.
- 10. AREAS THAT REQUIRE RE-FERTILIZATION AND/OR RE-SEEDING WILL BE DESIGNATED BY THE ENGINEER. WHEN ANY PORTION OF SURFACE BECOMES GULLED OR OTHERWISE DAMAGED FOLLOWING SEEDING, OR SEEDLINGS HAVE BEEN WINTER-KILLED OR OTHERWISE DESTROYED, AFFECTED PORTION SHALL BE REPAIRED TO RE-ESTABLISH CONDITION AND GRADE OF SOIL PRIOR TO SEEDLING AND SHALL BE RE-SEEDED AS SPECIFIED ABOVE.
- 11. ALL DISTURBED AREAS ARE TO BE GRASSED IMMEDIATELY AFTER CONSTRUCTION IN THE AREA. AT NO TIME WILL AN AREA BE LEFT BARE FOR MORE THAN 14 DAYS AFTER COMPLETION OF CONSTRUCTION.

EROSION PREVENTION & SEDIMENT CONTROL NOTES (CONT.)

- 12. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AND MAINTAINED ON THE PROJECT SITE. STORM WATER INLET PROTECTION SHALL BE PROVIDED FOR ALL INLETS (UPSTREAM AND DOWNSTREAM) WITHIN 50 FT OF THE CONSTRUCTION ENTRANCE OR DISTURBANCE (ON BOTH SIDES OF THE PUBLIC ROADWAY).
- 13. ALL EXISTING AND NEW STORM WATER STRUCTURES, AFFECTED BY THIS PROJECT, SHALL BE INSPECTED AND MAINTAINED CLEAN OF ACCUMULATED DEMOLITION DEBRIS OR SEDIMENTS.
- 14. DISPOSAL OF ALL RECOVERED SEDIMENTS AND CONSTRUCTION DEBRIS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS. NO SEDIMENT OR CONSTRUCTION DEBRIS SHALL BE FLUSHED DOWN THE STORMWATER SYSTEM.
- DURING THE COURSE OF CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENT CONTROLS SHALL BE USED TO PREVENT TRACKING OF MUD AND/OR SEDIMENT ACCUMULATION ON PUBLIC ROADWAYS (INCLUDING STREET GUTTERS), SEDIMENT LADEN RUNOFF FROM ENTERING INTO EXISTING STORM WATER SYSTEM INLETS OR DEPOSITING ON ADJACENT PROPERTIES, AND AIRBORNE DUST MIGRATION OFF-SITE. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, BY SWEEPING OR VACUUMING, AS MAY BE REQUIRED.
- 16. TO SECURE THE PROJECT SITE, LOCATE LIMITS OF CONSTRUCTION, PROTECT AREAS THAT ARE TO REMAIN UNDISTURBED AND PREVENT MIGRATION OF CONSTRUCTION DEBRIS, ORANGE CONSTRUCTION FENCING SHALL BE INSTALLED AROUND AREAS NOT REQUIRING SILT FENCING. ANY ACCUMULATION OF CONSTRUCTION DEBRIS ON PUBLIC ROADWAYS OR ADJACENT PROPERTIES SHALL BE REMOVED WITHIN 24 HOURS. CARE SHALL BE TAKEN WHEN INSTALLING CONSTRUCTION FENCING TO NOT OBSCURE ONCOMING TRAFFIC AT INTERSECTIONS, ADJACENT DRIVEWAYS AND THE PROJECT CONSTRUCTION ENTRANCE.
- 17. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED IMMEDIATELY AFTER THE UTILITY INSTALLATION.
- 18. SILT FENCE SHALL BE INSTALLED ALONG LINES OF EQUAL ELEVATION. SILT FENCING SHALL BE INSTALLED NO CLOSER THAN 5 FEET DOWNHILL FROM THE TOE OF ANY SLOPE.
- 19. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. ALL WOS SHALL BE CLEARLY DELINEATED ON THE EROSION PREVENTION AND SEDIMENT CONTROL PLANS.
- 20. PROJECT SETBACK BUFFERS SHALL BE LOCATED A MINIMUM OF 30 FT. MEASURED FROM THE TOP OF STREAM BANK OR EDGE OF WETLAND, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. ALL SETBACKS SHALL BE CLEARLY DELINEATED ON THE EROSION PREVENTION AND SEDIMENT CONTROL PLANS.
- 21. A SINGLE ROW OF SILT FENCING SHALL BE INSTALLED ALONG ALL SETBACK BUFFERS THAT MEET THE MINIMUM REQUIREMENTS.
- 22. A DOUBLE ROW OF SILT FENCING SHALL BE INSTALLED IN ALL AREAS WHERE A MINIMUM SETBACK BUFFER CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND THE WATER BODY OR WETLAND. DOUBLE ROW OF SILT FENCING SHALL BE PLACED NO CLOSER THAN 5 FT DOWNHILL FROM THE TOE OF ANY FILL AREA AND A MINIMUM OF 5 FT SPACING SHALL BE MAINTAINED BETWEEN SILT FENCE ROWS. A MINIMUM 5 FT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WATER BODIES AND WETLANDS.
- 23. STOCKPILES OF USEABLE OR WASTE MATERIALS SHALL BE SURROUNDED BY A ROW OF SILT FENCE AT ALL TIMES. STOCKPILES THAT ARE UNDISTURBED FOR MORE THAN FOURTEEN (14) DAYS SHALL HAVE APPROPRIATE STABILIZATION MEASURES INSTALLED. STOCKPILES SHALL BE PLACED A MINIMUM OF 50 FEET AWAY FROM STORM WATER FLOWS, STORMWATER INLET STRUCTURES, DRAINAGE COURSES, ADJACENT PROPERTY AND PUBLIC ROADWAYS.
- 24. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER), AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES.
- 25. TEMPORARY DIVERSION BERMS, DITCHES, OR SLOPE DRAINS SHALL BE PROVIDED FOR ALL SLOPES 3:1 OR STEEPER AND AS OTHERWISE NEEDED DURING CONSTRUCTION TO PROTECT AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 26. SLOPES 3:1 OR STEEPER AND/OR EXCEEDING EIGHT (8) VERTICAL FEET SHALL BE STABILIZED WITH STAKED IN PLACE SOD OR SYNTHETIC/VEGITATIVE MATS IN ADDITION TO HYDRO SEEDING AS SOON AS PRACTICAL BUT NOT MORE THAN 7 CALENDAR DAYS AFTER LAND DISTURBING ACTIVITIES ON THE SLOPE HAVE PERMANENTLY OR TEMPORARILY CEASED.
- 27. CAT RACK OR SURFACE ROUGHENING IS REQUIRED FOR AL SLOPES 3:1 OR STEEPER PRIOR TO SEEDING AND LYING OF SYNTHETIC OR VEGETATIVE MATS. CAT TRACKING OR SURFACE ROUGHENING SHALL PRODUCE A SURFACE WITH FURROWS RUNNING CROSS SLOPE, PARALLEL WITH SLOPE CONTOURS, AND PERPENDICULAR TO SURFACE RUNOFF.
- 28. PORTABLE TOILET FACILITIES SHALL NOT BE LOCATED WITHIN 20 FEET OF ANY STORM WATER STRUCTURE AND/OR 50 FEET OF ANY WATER COURSE, WETLAND AREA, STREAM, FLOODPLAIN, OR LAKE.

29. THE FOLLOWING DISCHARGES ARE PROHIBITED:

- A. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL
- B. WASTEWATER FROM WASHOUT AND CLEANOUTS OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS.
- C. FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE
- D. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING DURING CONSTRUCTION
- 30. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP'S (SEDIMENT BASIN, FILTER BAG, ETC.).
- 32. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR PROVIDE AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG 72-3000 ET. SEQ. AND SCR100000.
- 3. PROPERLY SIGNED AND SEALED AS-BUILT DRAWINGS OF THE STORMWATER PLAN AND A SIGNED AND SEALED DETENTION BASIN AS-BUILT SHALL BE SUBMITTED TO THE CITY WITHIN 30 DAYS OF THE PERMANENT STABILIZATION AND PRIOR TO ISSUANCE OF PROJECT ACCEPTANCE BY THE CITY.





07/29/2015 OF AN DAVID

THE CITY OF

GREENVILL

REVISION No. DATE BY/CHKD

DELANO PARKING LOT

TY OF GREENVILLE

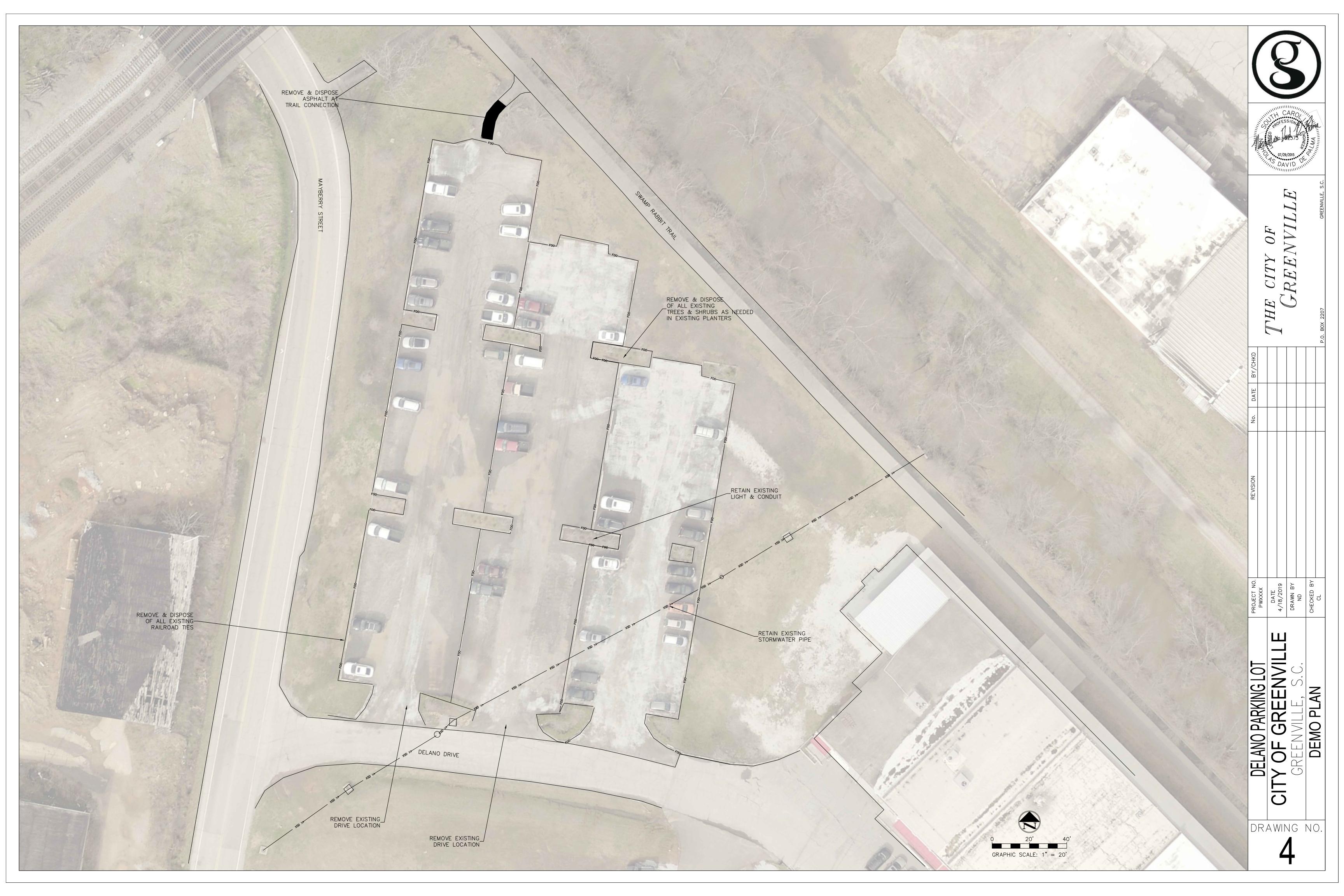
GREENVILLE, S.C.

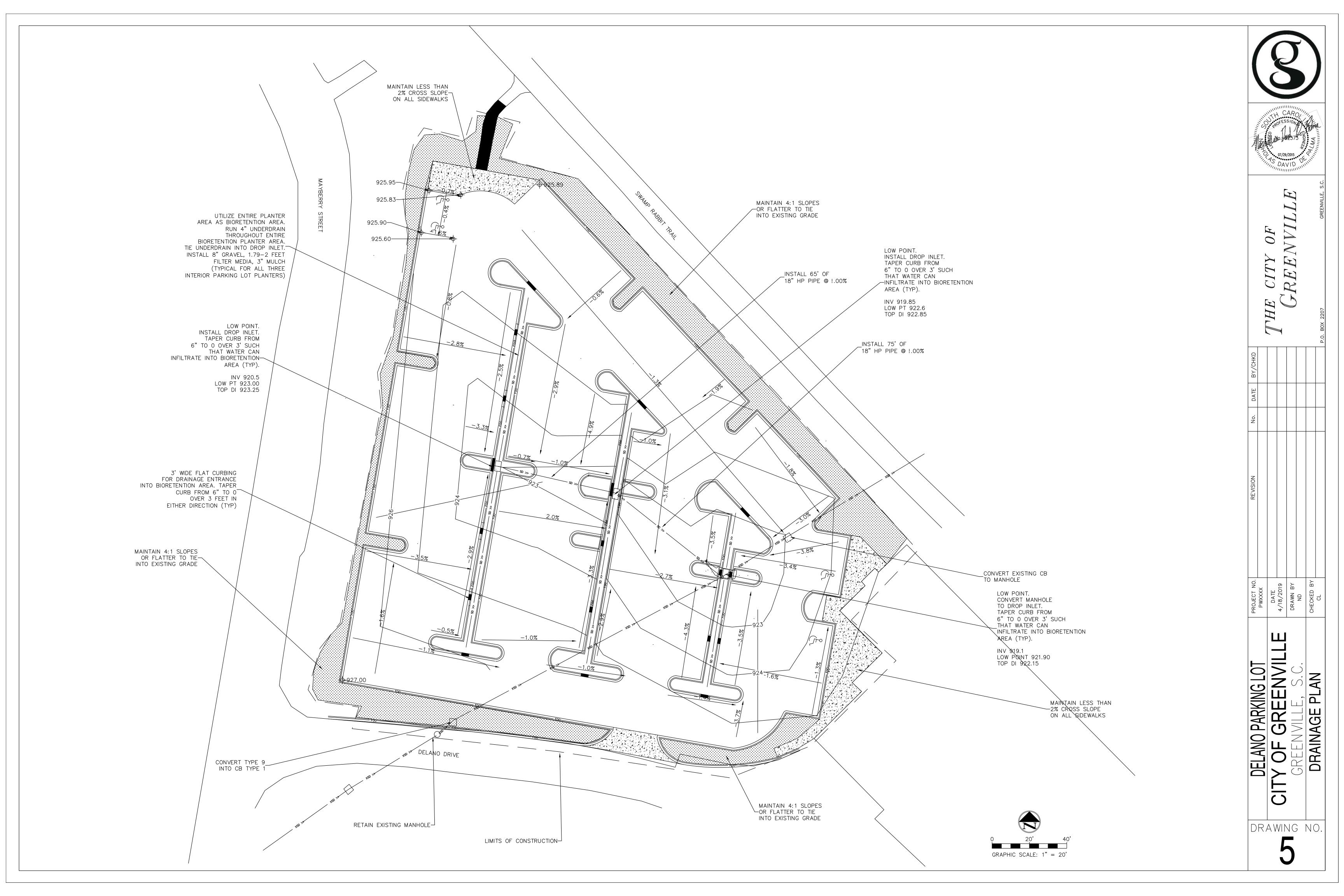
ROSION CONTROL NOTES

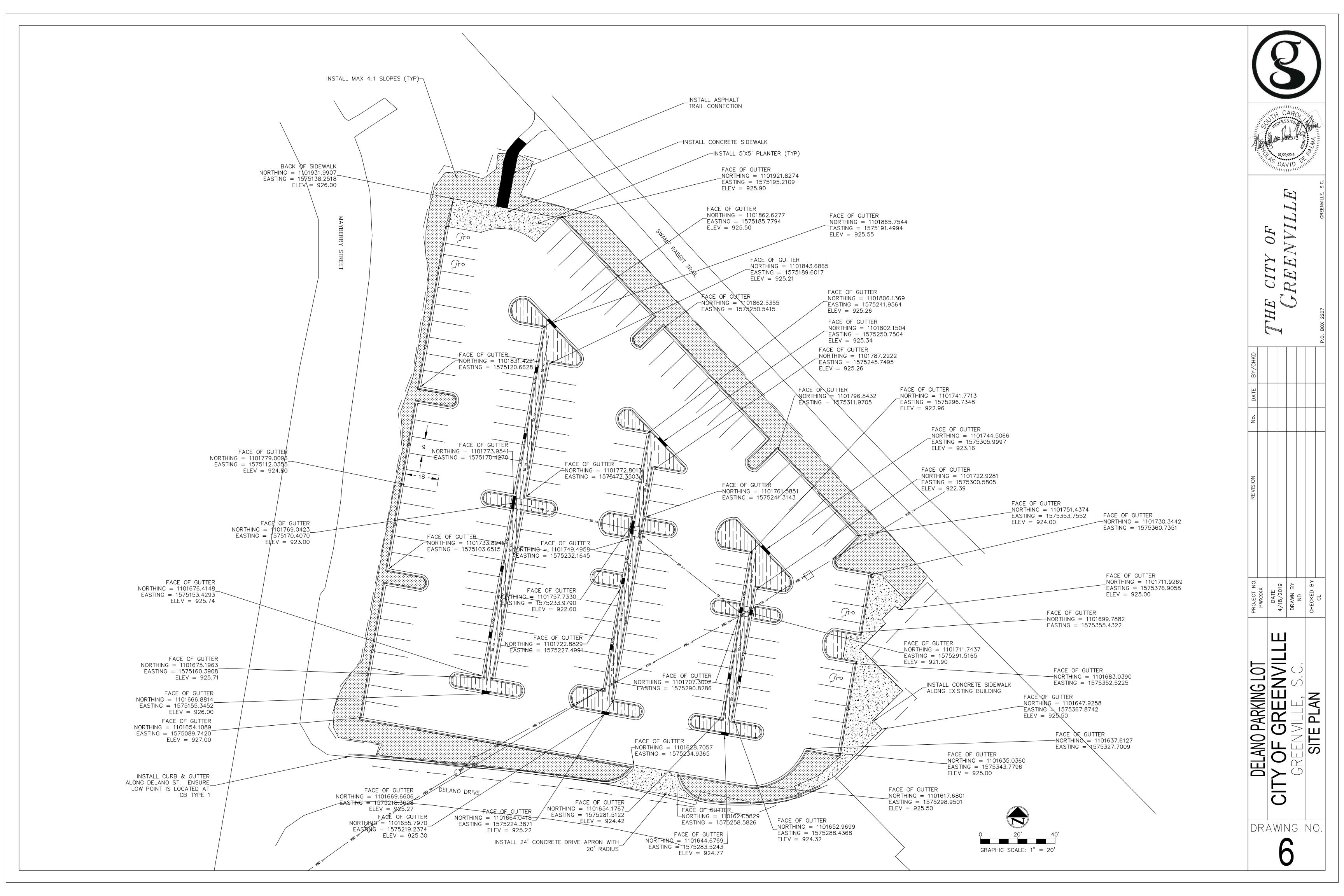
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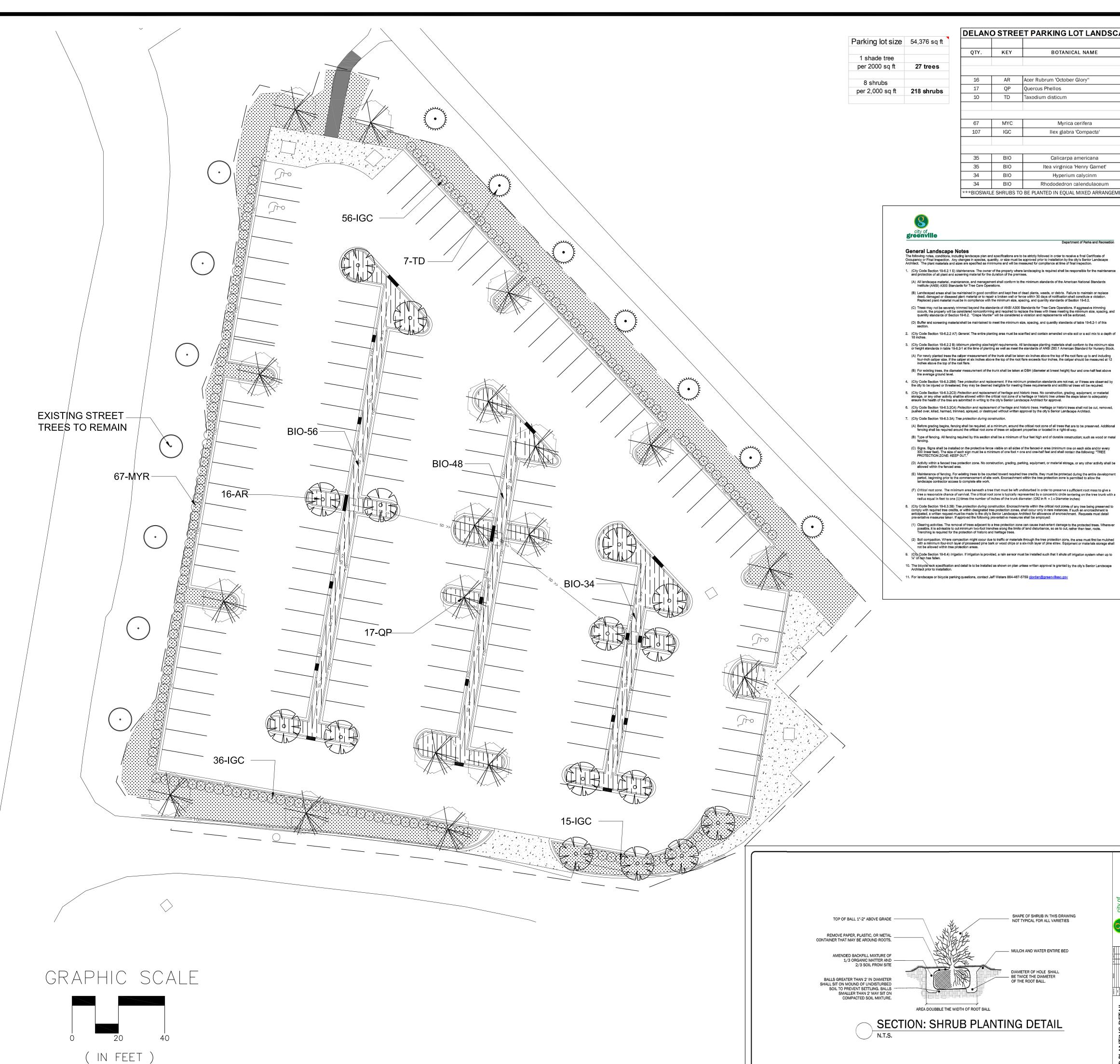
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3









		ET PARKING LOT LANDSC	APE SCHEDULE					
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS			
				SHADE TREES				
16	AR	Acer Rubrum 'October Glory"	OCTOBER GLORY RED MAPLE	2.5" CALIPER x 12' HEIGHT	B&B, CENTRAL LEADER, MEETS ANSI Z60.1 STANDARDS			
17	QP	Quercus Phellos	WILLOW OAK	2.5" CALIPER x 12' HEIGHT	B&B, CENTRAL LEADER, MEETS ANSI Z60.1 STANDARDS			
10	TD	Taxodium disticum	BALD CYPRESS	2.5" CALIPER x 12' HEIGHT	B&B, CENTRAL LEADER, MEETS ANSI Z60.1 STANDARDS			
				SHRUBS				
67	MYC	Myrica cerifera WAX MYRTLE		Myrica cerifera WAX MYRTLE	WAX MYRTLE	3 GAL, FULL TO GROUND	CONTAINER, PLANTED 4' ON-CENTER, MEETS ANSI Z60.1 STANDARDS	
107	IGC	Ilex glabra 'Compacta'	COMPACT INKBERRY	3 GAL, FULL TO GROUND	CONTAINER, PLANTED 4' ON-CENTER, MEETS ANSI Z60.1 STANDARDS			
			BIC	SWALE SHRUBS				
35	BIO Calicarpa americana AMERCIAN BEAUTYBERRY		3 GAL, FULL TO GROUND	CONTAINER, PLANTED 4' ON-CENTER, MEETS ANSI Z60.1 STANDARDS				
35	BIO	Itea virginica 'Henry Garnet'	HENRY'S GARNET SWEETSPIRE	3 GAL, FULL TO GROUND	CONTAINER, PLANTED 4' ON-CENTER, MEETS ANSI Z60.1 STANDARDS			
34	BIO	Hyperium calycinm	ST JOHNS WORT	3 GAL, FULL TO GROUND	CONTAINER, PLANTED 4' ON-CENTER, MEETS ANSI Z60.1 STANDARDS			
34	BIO	Rhododedron calendulaceum	FLAME AZALEA	3 GAL, FULL TO GROUND	CONTAINER, PLANTED 4' ON-CENTER, MEETS ANSI Z60.1 STANDARDS			

Department of Parks and Recreation

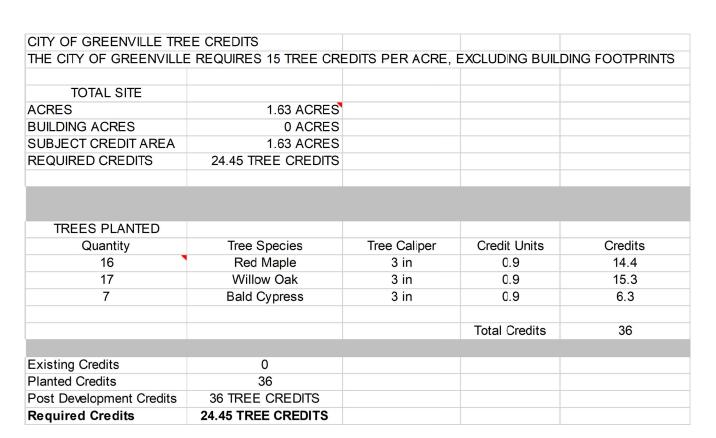
SHAPE OF SHRUB IN THIS DRAWING NOT TYPICAL FOR ALL VARIETIES

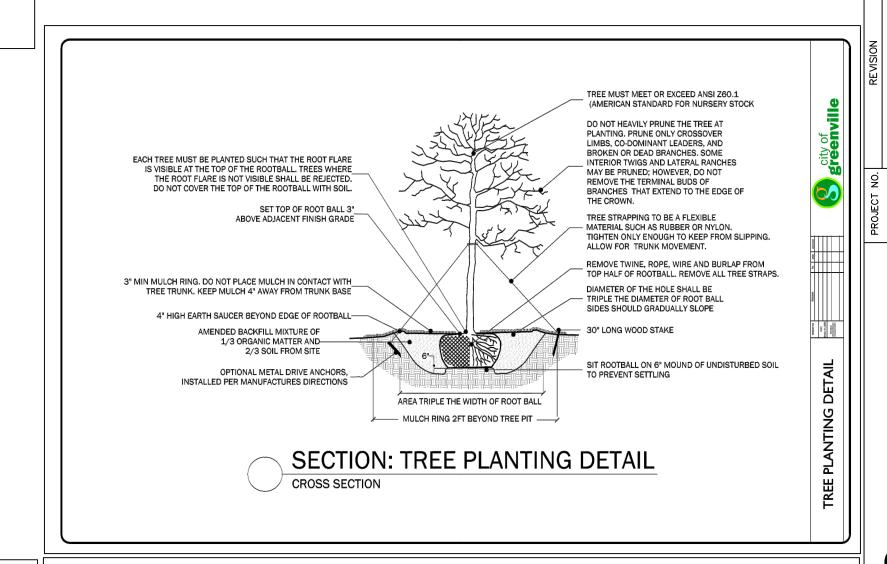
- MULCH AND WATER ENTIRE BED

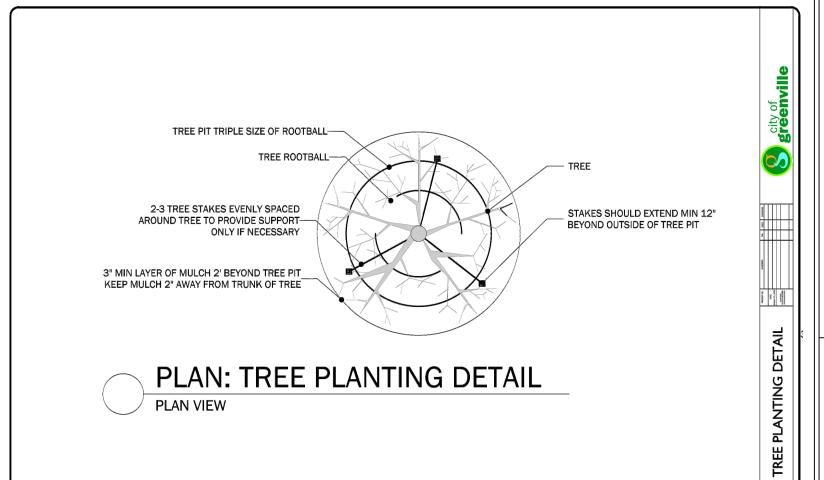
DIAMETER OF HOLE SHALL

BE TWICE THE DIAMETER

OF THE ROOT BALL.



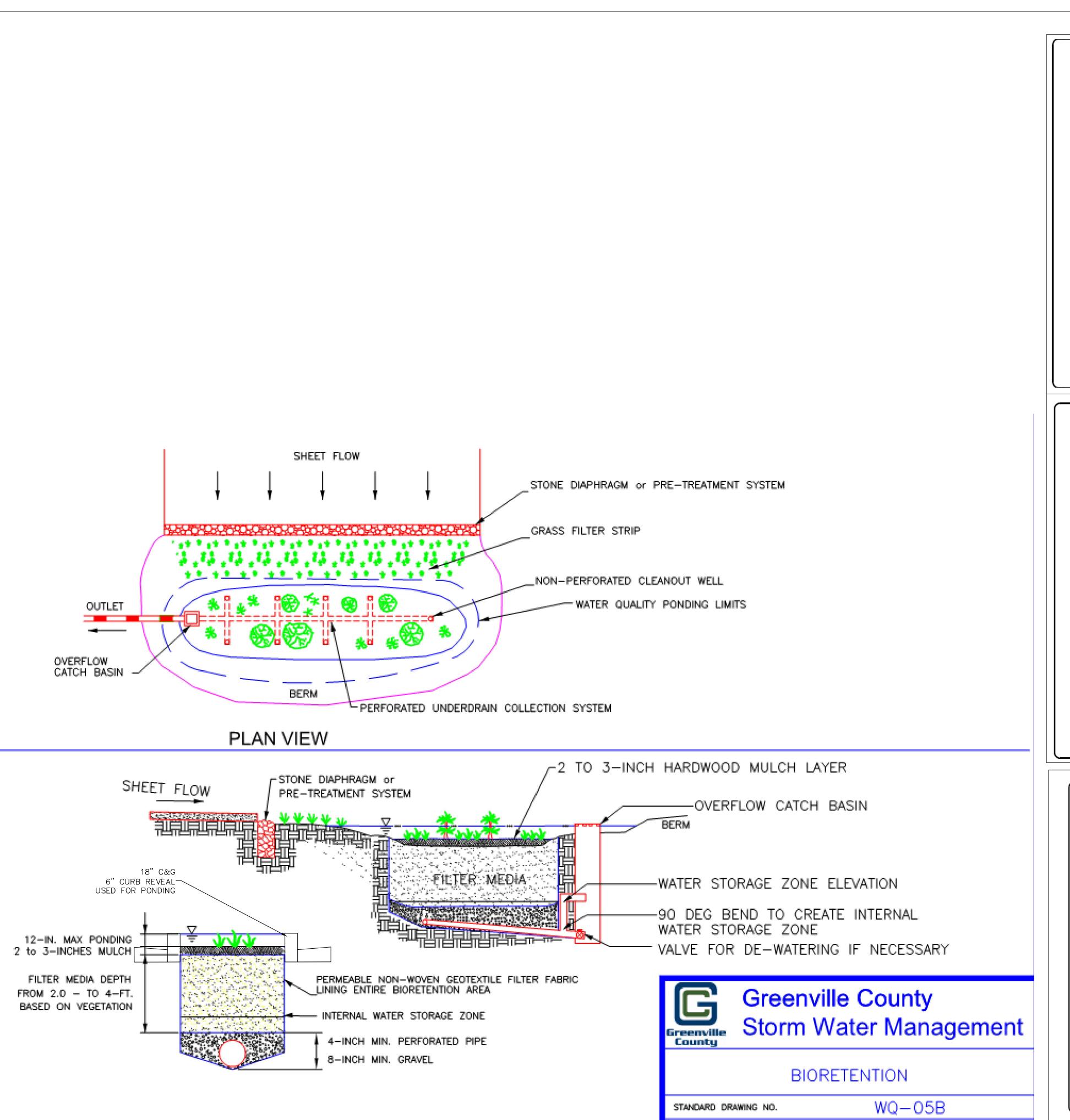


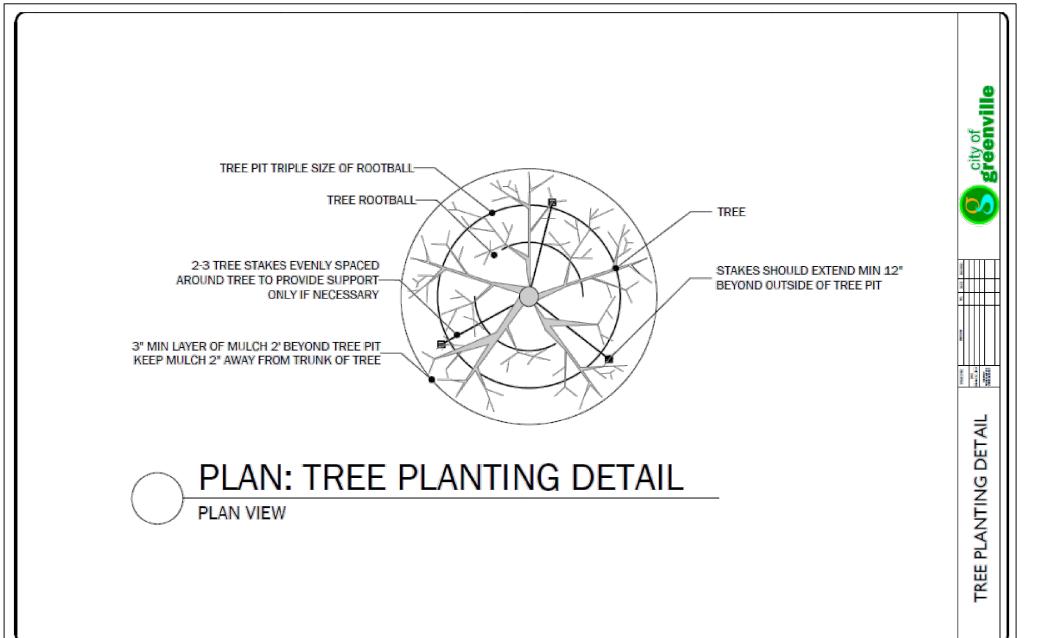


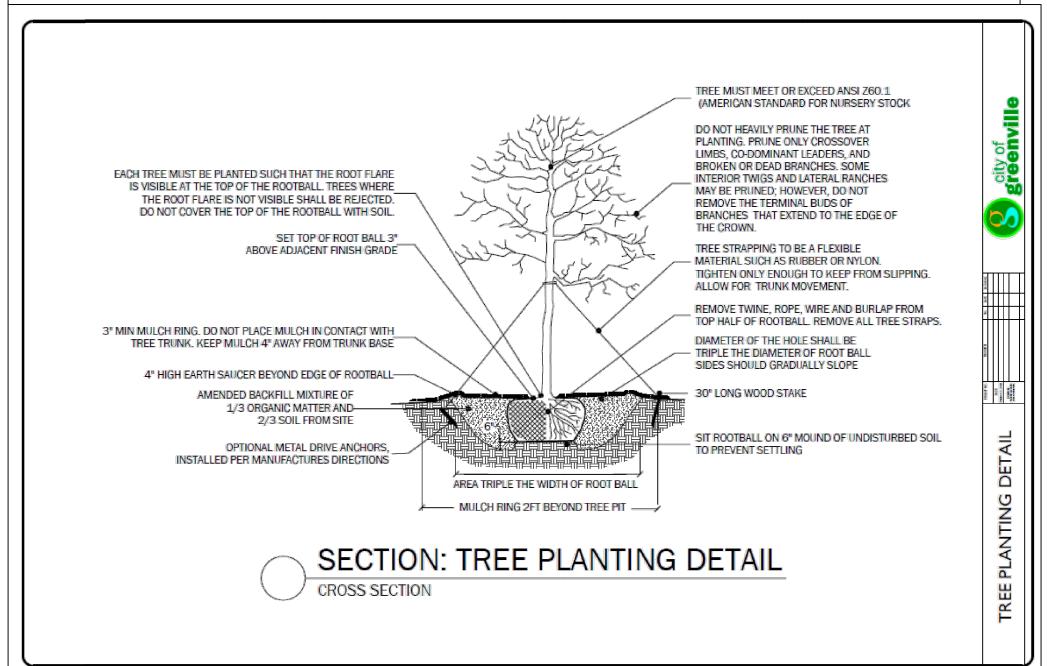
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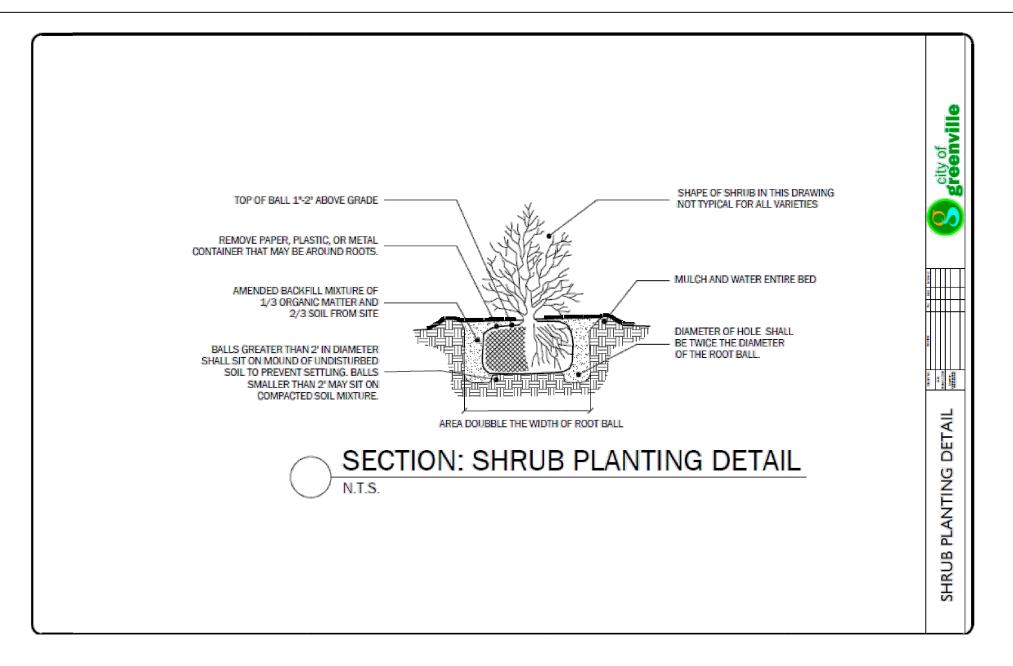
ndscape Plan







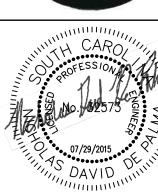




January 2018

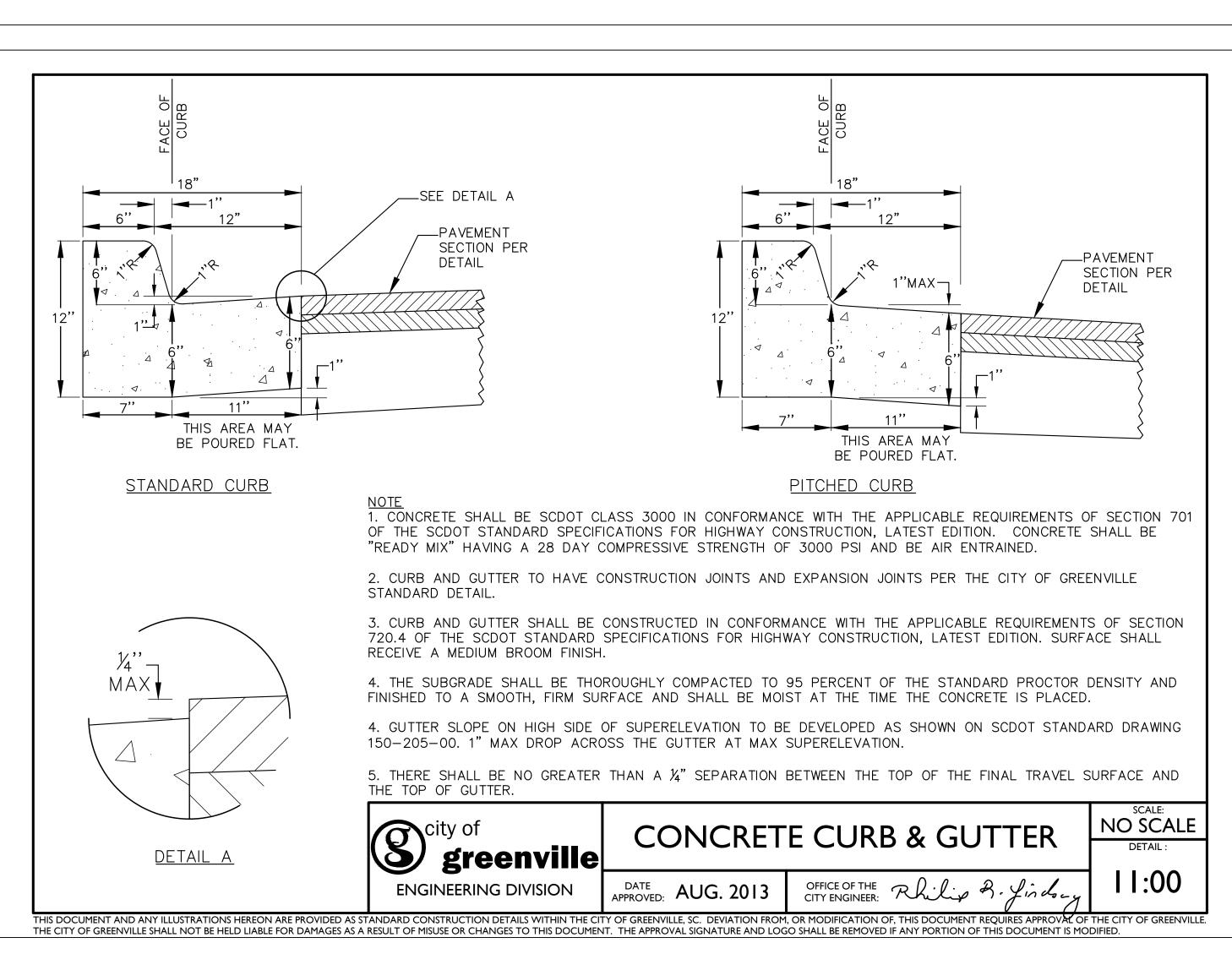
GREENVILLE COUNTY STORM WATER MANAGEMENT

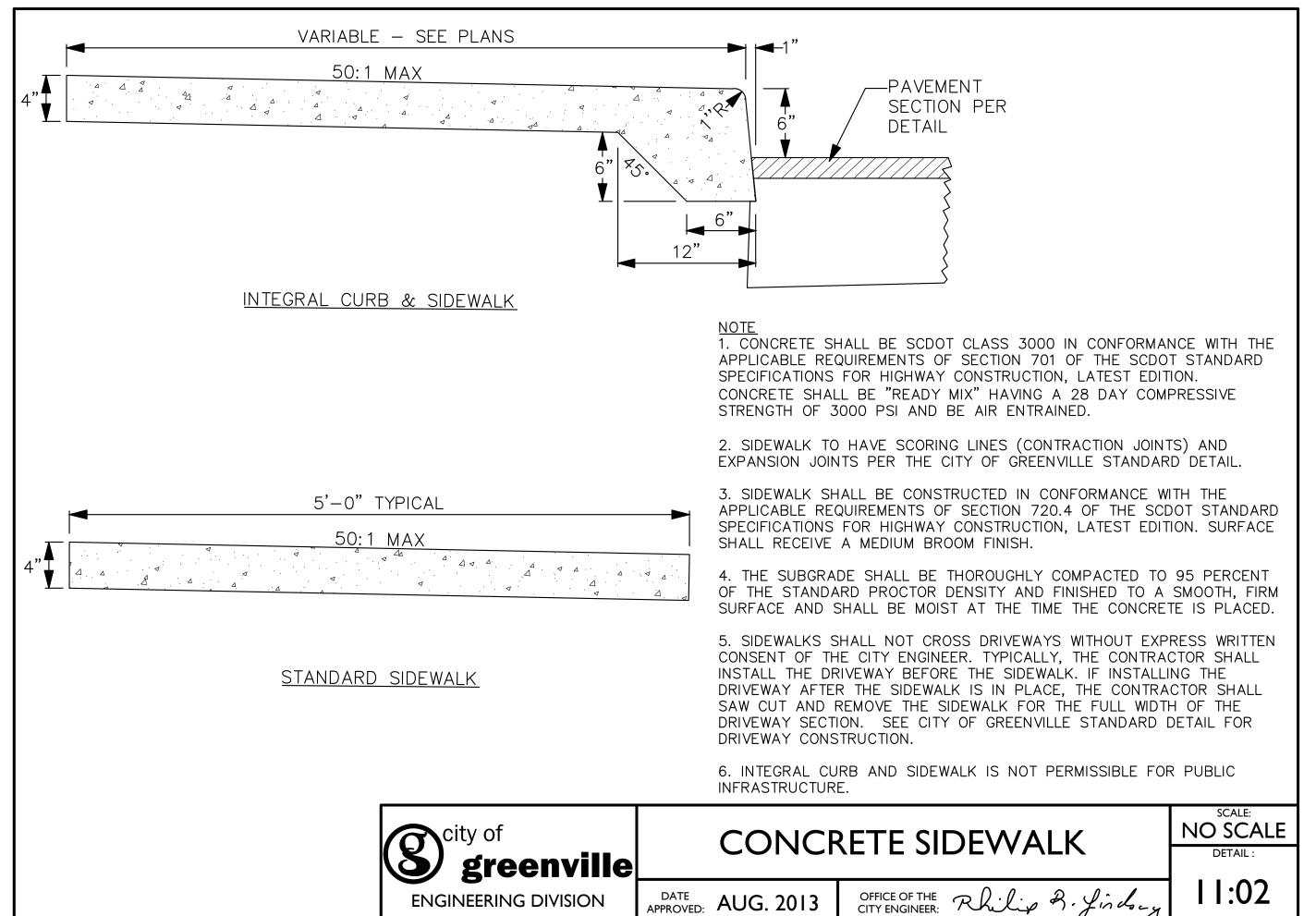




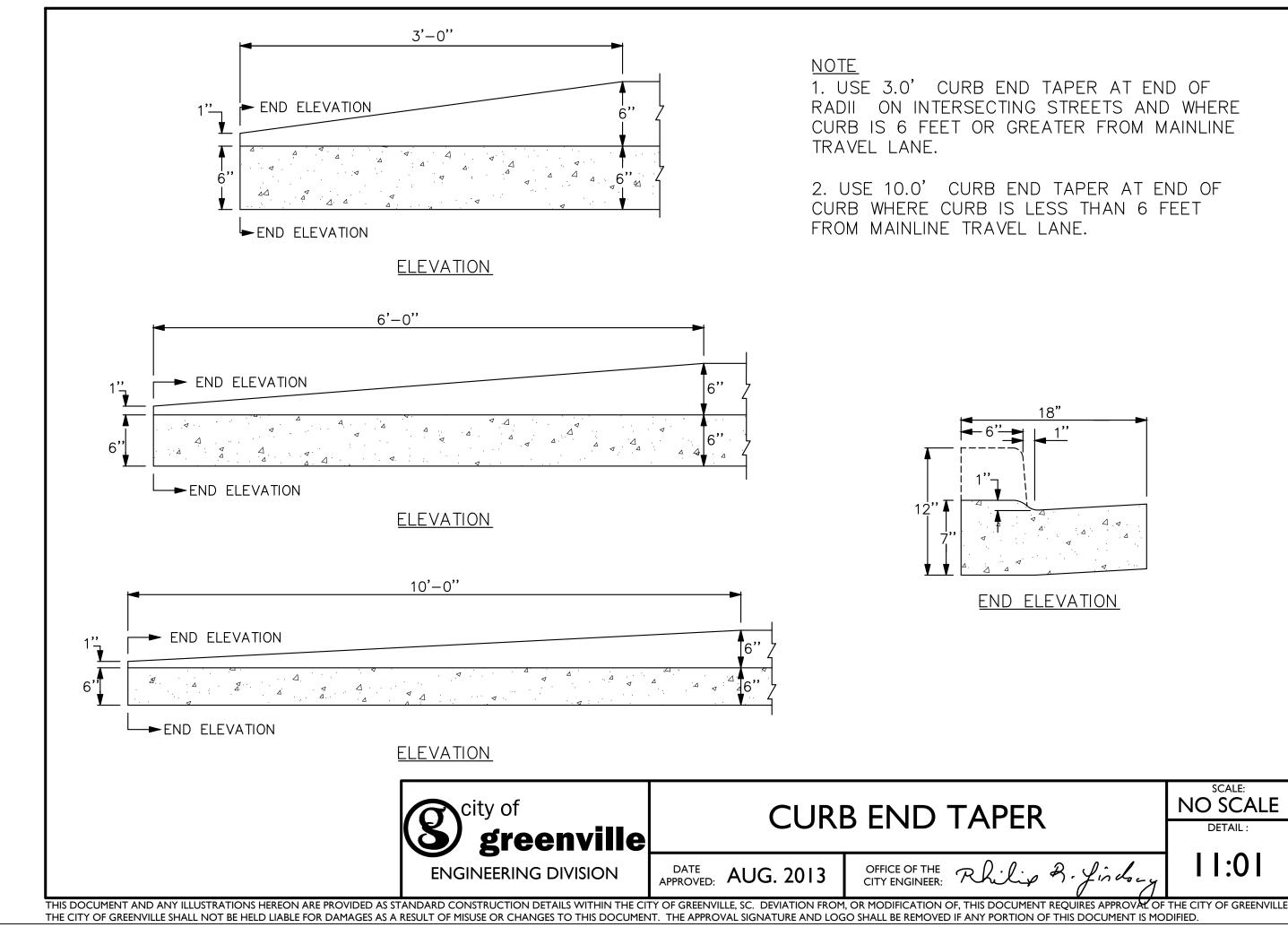


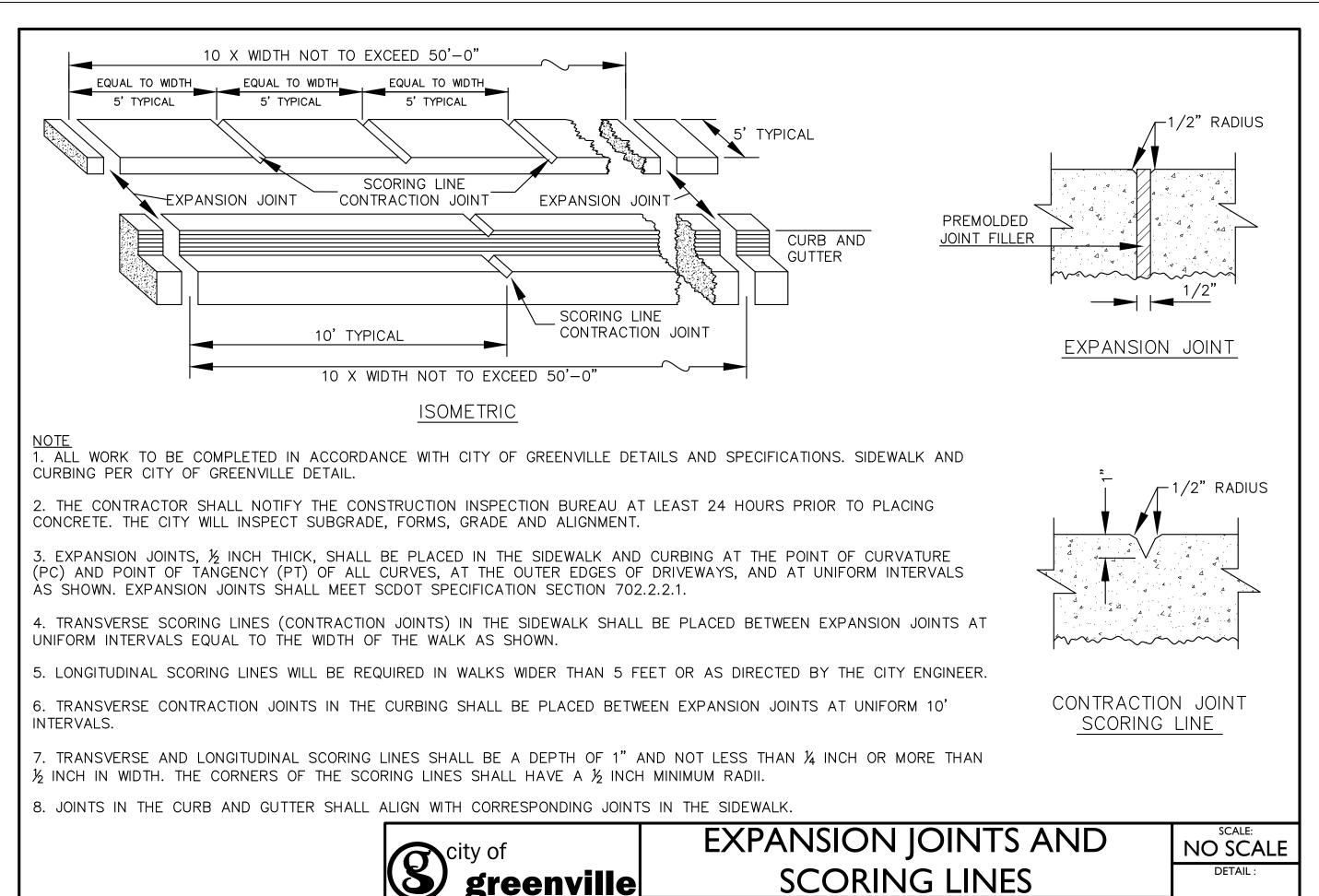
DELANO PARKING LOT Y OF GREENVILL **DETAILS** DRAWING NO.



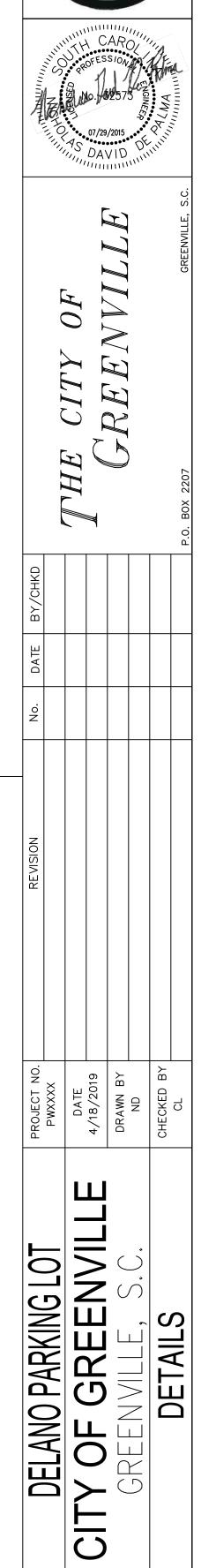


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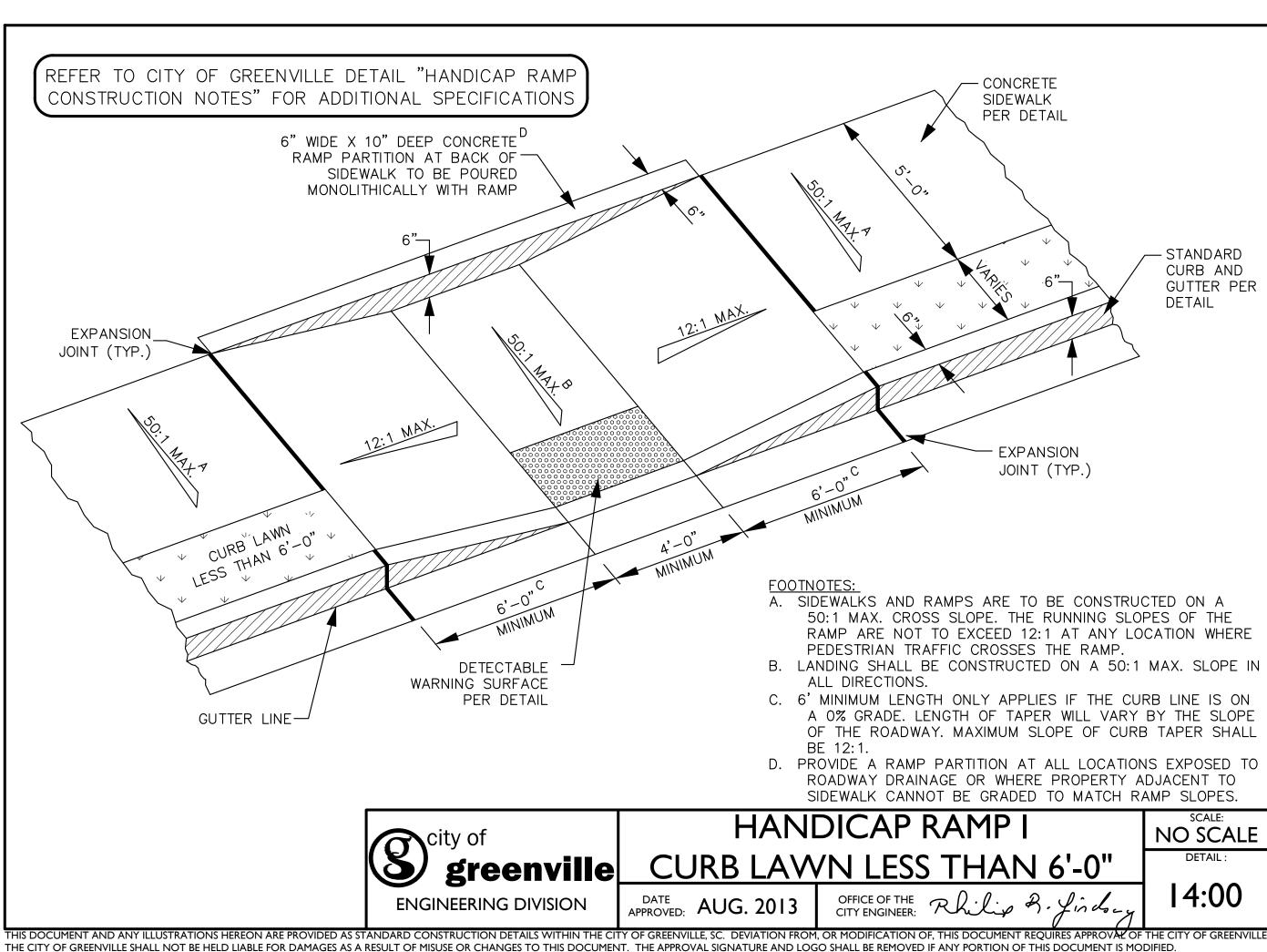
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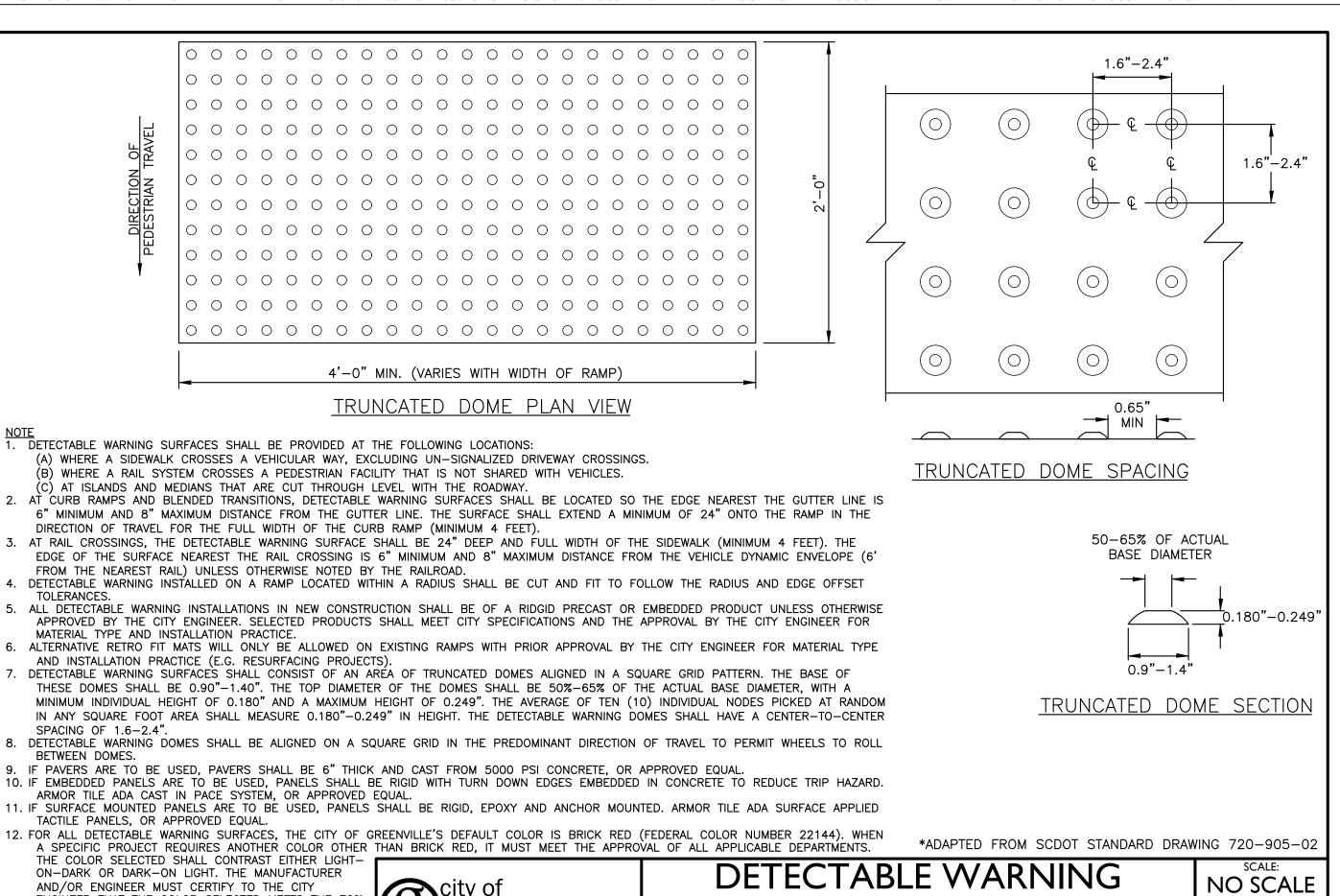
11:03

OFFICE OF THE CITY ENGINEER:

ENGINEER THAT THE COLOR SELECTED MEETS THE 70%

CONTRAST SPECIFICATIONS OF THE ADAAG.





APPROVED: AUG. 2013

ENGINEERING DIVISION

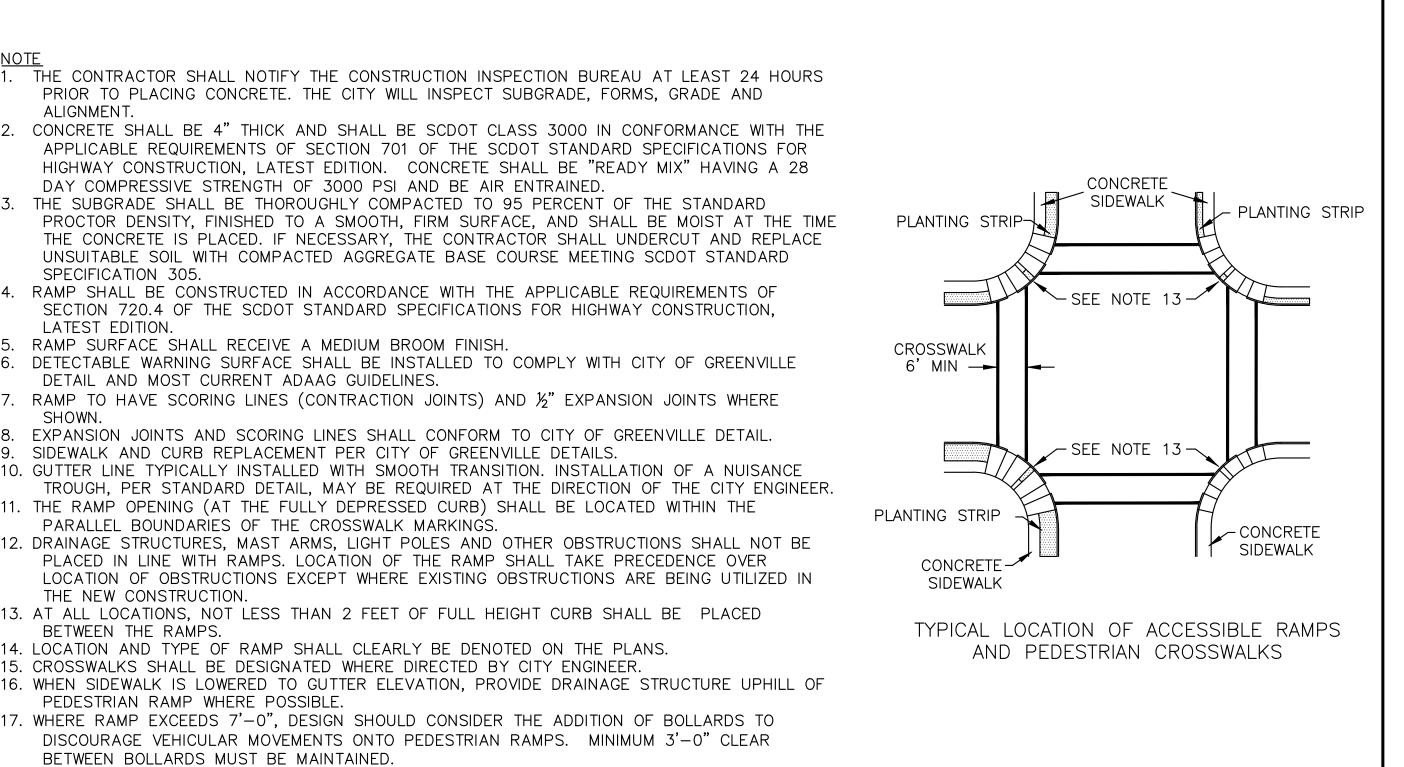
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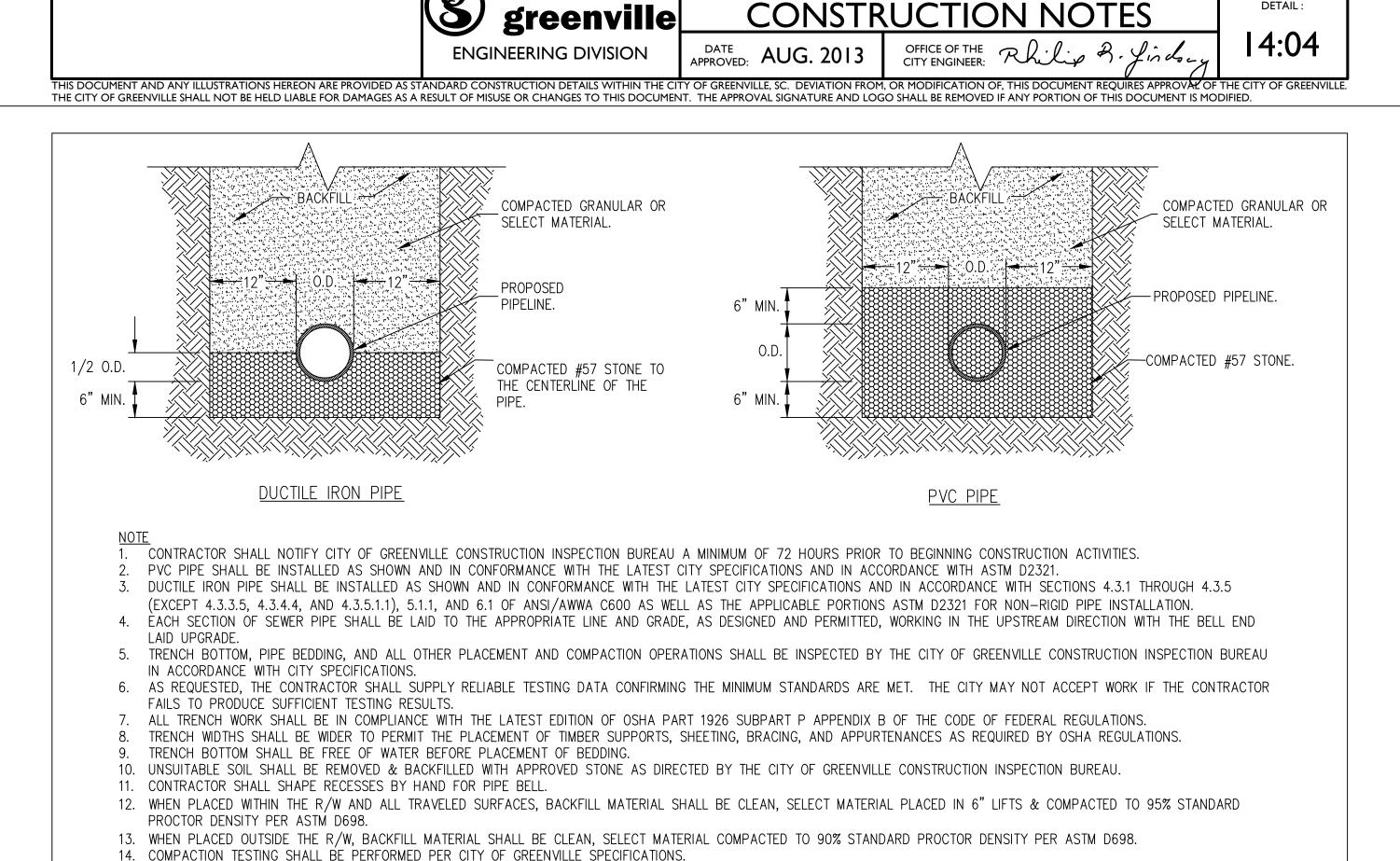
SURFACE

OFFICE OF THE

CITY ENGINEER:

DETAIL:

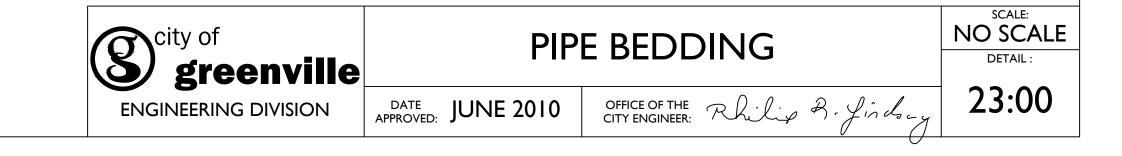




15. SELECT BACKFILL MATERIAL IS NATIVE SOIL EXCAVATED FROM THE TRENCH FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. UNSUITABLE NATIVE SOIL SHALL NOT BE USED.

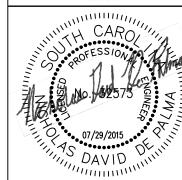
16. PIPE SHALL RECEIVE A MINIMUM 36" OF COVER BEFORE ALLOWING VEHICLES OR CONSTRUCTION EQUIPMENT TO TRAFFIC THE TRENCH SURFACE AND AT LEAST 48" OF COVER BEFORE

USING A HYDROHAMMER FOR COMPACTION.



HANDICAP RAMP





TE CITY OF
GREENVILLE

No. DATE BY/CHKD

NO SCALE

PWXXXX

DATE

4/18/2019

DRAWN BY

ND

CHECKED BY

LANO PARKING LOT

OF GREENVILLE
RENVILLE, S.C.
DETAILS

DRAWING NO

D3